South Dakota
2002 AGRICULTURAL CHEMICAL USAGE

Released: September 2003

OVERVIEW: *The agricultural chemical use estimates in this report are based on data compiled from the Agricultural Resources Management Study (ARMS) conducted during the fall of 2002. All results refer to on-farm use of commercial fertilizers and*

SOYBEANS

SOUTH DAKOTA: Nitrogen was applied to 37 percent of South Dakota's 4,250,000 soybean acres in 2002, averaging 1.1 applications at a rate of 18 pounds per acre. Phosphate was applied to 41 percent of the acreage, averaging 1.0 application at a rate of 54 pounds per acre. Potash was applied to 15 percent of the acreage, averaging 1.4 applications at 27 pounds per acre.

Herbicide was applied to 100 percent of the acres planted, and insecticide was applied to 19 percent. Glyphosate was applied to 72 percent of the acres, averaging 1.5 applications at a rate of 0.71 pound per acre. Pendimethalin was second, having been applied to 9 percent of the acres. Glyphosate diam. salt, in third place, was applied to 3 percent of the acres.

NATIONAL: Nitrogen was applied to 20 percent of the 2002 soybean acreage in the twenty states surveyed. Phosphates were applied to 26 percent of the acreage, and potash was applied to 29 percent.

Growers treated 99 percent of the soybean acreage surveyed with herbicides in 2002. Glysophate was the most prevalent with 78 percent of the planted acreage treated. Imazethapyr and Pendimethalin were tied for second place, with a distant 9 percent of acres treated.

For complete data at the National level visit the website www.usda.gov/nass/ and select "Agricultural Chemical Usage" under Publications, Reports by Commodity.

SOYBEANS, SOUTH DAKOTA, SELECTED YEARS
Acreage, Percent Receiving Fertilizer and Pesticides, Number of Applications, Rate per Application

Year 1/	Area Planted	Nitrogen			Phosphate			Potash			Herbicide	Insecticide
		Area Applied	Appli-cations	Rate Per Appli-cation	Area Applied	Appli-cations	Rate Per Appli-cation	Area Applied	Appli-cations	Rate Per Appli-cation	Area Applied	Area Applied
	1,000	Percent	Number	Lbs/Acre	Percent	Number	Lbs/Acre	Percent	Number	Lbs/Acre	Percent	Percent
1998	3,450	32	1.0	27	32	1.0	35	11	1.0	8	96	2/
1999	4,100	47	1.0	20	47	1.0	45	19	1.0	27	98	2/
2000	4,400	38	1.0	14	43	1.0	35	12	1.0	23	98	NA
2002	4,250	37	1.1	18	41	1.0	54	15	1.4	27	100	19

1/ Soybean chemical usage data was not collected for South Dakota in 2001. 2/ Insufficient reports to publish data. NA = Not available.

SOYBEANS, SELECTED STATES, 2002
Acreage, Percent Receiving Fertilizer and Pesticides, Number of Applications, Rate per Application

State	Area Planted	Nitrogen			Phosphate			Potash			Herbicide	Insecticide
		Area Applied	Appli-cations	Rate Per Appli-cation	Area Applied	Appli-cations	Rate Per Appli-cation	Area Applied	Appli-cations	Rate Per Appli-cation	Area Applied	Area Applied
	1,000	Percent	Number	Lbs/Acre	Percent	Number	Lbs/Acre	Percent	Number	Lbs/Acre	Percent	Percent
IA	10,400	3	1.0	26	7	1.0	70	12	1.0	120	99	9
MN	7,200	11	1.0	20	12	1.0	38	10	1.0	52	99	1/
NE	4,700	31	1.0	15	36	1.0	45	11	1.0	28	100	4
SD	4,250	37	1.1	18	41	1.0	54	15	1.4	27	100	19
Total 2/												

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Access our reports via the Internet at http://www.usda.gov/nass/

SOYBEANS, SOUTH DAKOTA, 2002
Frequency and Extent of Chemical Usage by Active Ingredient

Active Ingredient	Common Trade Name	Area Applied	Applications	Rate Per Application	Rate Per Crop Year	Total Applied
		Percent	Number	- - - Pounds Per Acre - - -		1,000 Pounds
Herbicides:						
Glyphosate 1/	Roundup	72	1.5	0.71	1.10	3,359
Glyphosate diam. salt	Touchdown	3	1.4	0.68	0.95	120
Pendimethalin 1/	Prowl, Pursuit	9	1.0	0.99	0.99	371
Insecticides:						
Lambda-Cyhalothrin	Warrior	12	1.0	0.02	0.02	10

1/ Chemical marketed under several trade names.

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